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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/877,987

DATE: 11/01/2001
TIME: 14:39:11

Input Set : A:\Townsen1.app
Output Set: N:\CRF3\11012001\I877987.raw

ENTERED

3 <110> APPLICANT: Townsend, Robert M.
4 Todderud, Charles G
5 Peach, Robert J.
7 <120> TITLE OF INVENTION: METHODS FOR REGULATING A CELL-MEDIATED IMMUNE RESPONSE
8 BY BLOCKING LYMPHOCYTIC SIGNALS AND BY BLOCKING LFA-1
9 MEDIATED ADHESION
11 <130> FILE REFERENCE: D0009NP/30436.53USU1
13 <140> CURRENT APPLICATION NUMBER: 09/877,987
14 <141> CURRENT FILING DATE: 2001-06-08
16 <150> PRIOR APPLICATION NUMBER: 60/210,671
17 <151> PRIOR FILING DATE: 2000-06-09
19 <160> NUMBER OF SEQ ID NOS: 9
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 65
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
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30 cagcc 65
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34 <211> LENGTH: 33
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 2
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43 <211> LENGTH: 72
44 <212> TYPE: DNA
45 <213> ORGANISM: Homo sapiens
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53 <211> LENGTH: 41
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Oncostatin M
59 CTLA4 (OMCTLA4) Forward Primer
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66 <211> LENGTH: 42
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:

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134 85 90 95
 136 Ser Gly Asn Gln Val Asn Leu Thr Ile Gln Gly Leu Arg Ala Met Asp
 137 100 105 110
 139 Thr Gly Leu Tyr Ile Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr
 140 115 120 125
 142 Tyr Leu Gly Ile Gly Asn Gly Thr Gln Ile Tyr Val Ile Asp Pro Glu
 143 130 135 140
 145 Pro Cys Pro Asp Ser Asp Gln Glu Pro Lys Ser Ser Asp Lys Thr His
 146 145 150 155 160
 148 Thr Ser Pro Pro Ser Pro Ala Pro Glu Leu Leu Gly Gly Ser Ser Val
 149 165 170 175
 151 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 152 180 185 190
 154 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 155 195 200 205
 157 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 158 210 215 220
 160 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 161 225 230 235 240
 163 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 164 245 250 255
 166 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 167 260 265 270
 169 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 170 275 280 285
 172 Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 173 290 295 300
 175 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 176 305 310 315 320
 178 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Pro Pro Val Leu Asp Ser
 179 325 330 335
 181 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 182 340 345 350
 184 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 185 355 360 365
 187 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 188 370 375 380
 191 <210> SEQ ID NO: 8
 192 <211> LENGTH: 1152
 193 <212> TYPE: DNA
 194 <213> ORGANISM: Artificial Sequence
 196 <220> FEATURE:
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 201 agcatggcga gcatggcaat gcacgtggcc cagcctgctg tggtaactggc cagcagccga 120
 202 ggcatcgcta gctttgtgtg tgagtatgca tctccaggca aataatactga ggtccgggtg 180
 203 acagtgcctc ggcaggctg cagccaggtg actgaagtct gtgcggcaac ctacatgatg 240
 204 gggaatgagt tgaccttcct agatgattcc atctgcacgg gcacccctccag tggaaatcaa 300

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205 gtgaacctca ctatccaagg actgagggcc atggacacgg gactctacat ctgcaaggtg 360
 206 gagctcatgt acccaccgcc atactacgag ggcataaggca acggaaacca gatttatgtt 420
 207 attgatccag aaccgtgccc agattctgtat cagagccca aatcttctga caaaactcac 480
 208 acatccccac cgtcccccagc acctgaactc ctggggggat cgtcagttt cctttcccc 540
 209 cccaaaaccca aggacacccct catgatctcc cggacccctg aggtcacatg cgtgtgggtg 600
 210 gacgtgagcc acgaagaccc tgaggtcaag ttcaactgtt acgtggacgg cgtggagggtg 660
 211 cataatgcca agacaaaagcc gcggggaggag cagttacaaca gcacgtaccg tttgttcagc 720
 212 gtcctcaccg tcctgcacca ggactggctg aatggcaagg agtacaagtg caaggtctcc 780
 213 aacaaagccc tcccgcccc catcgagaaa accatctcca aagccaaagg gcagccccga 840
 214 gaaccacagg tgtacaccct gccccatcc cggatgagc tgaccaagaa ccaggtcagc 900
 215 ctgacctgcc tggtaaaagg cttctatccc agcacatcg ccgtggagtg ggagagcaat 960
 216 gggcagccgg agaacaacta caagaccaacg cctccctgc tggactccga cggctcccttc 1020
 217 ttcccttaca gcaagctcac cgtggacaag agcaggtggc agcagggaa cgtttctca 1080
 218 tgctccgtga tgcatacggtc tctgcacaaac cactacacgc agaagagcct ctccctgtct 1140
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 223 <211> LENGTH: 383
 224 <212> TYPE: PRT
 225 <213> ORGANISM: Artificial Sequence
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 232 1 5 10 15
 234 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Met His Val Ala Gln Pro
 235 20 25 30
 237 Ala Val Val Leu Ala Ser Ser Arg Gly Ile Ala Ser Phe Val Cys Glu
 238 35 40 45
 240 Tyr Ala Ser Pro Gly Lys Tyr Thr Glu Val Arg Val Thr Val Leu Arg
 241 50 55 60
 243 Gln Ala Asp Ser Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Met Met
 244 65 70 75 80
 246 Gly Asn Glu Leu Thr Phe Leu Asp Asp Ser Ile Cys Thr Gly Thr Ser
 247 85 90 95
 249 Ser Gly Asn Gln Val Asn Leu Thr Ile Gln Gly Leu Arg Ala Met Asp
 250 100 105 110
 252 Thr Gly Leu Tyr Ile Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr
 253 115 120 125
 255 Tyr Glu Gly Ile Gly Asn Gly Thr Gln Ile Tyr Val Ile Asp Pro Glu
 256 130 135 140
 258 Pro Cys Pro Asp Ser Asp Gln Glu Pro Lys Ser Ser Asp Lys Thr His
 259 145 150 155 160
 261 Thr Ser Pro Pro Ser Pro Ala Pro Glu Leu Leu Gly Gly Ser Ser Val
 262 165 170 175
 264 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 265 180 185 190
 267 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 268 195 200 205
 270 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys

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271	210	215	220
273	Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser		
274	225	230	235
276	Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys		240
277	245	250	255
279	Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile		
280	260	265	270
282	Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro		
283	275	280	285
285	Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu		
286	290	295	300
288	Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn		
289	305	310	315
291	Gly Gln Pro Glu Asn Asn Tyr Lys Thr Pro Pro Val Leu Asp Ser		320
292	325	330	335
294	Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg		
295	340	345	350
297	Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu		
298	355	360	365
300	His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
301	370	375	380

VERIFICATION SUMMARY

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